

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528877

Luminaire Tested: **GALN-SA4A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12291 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

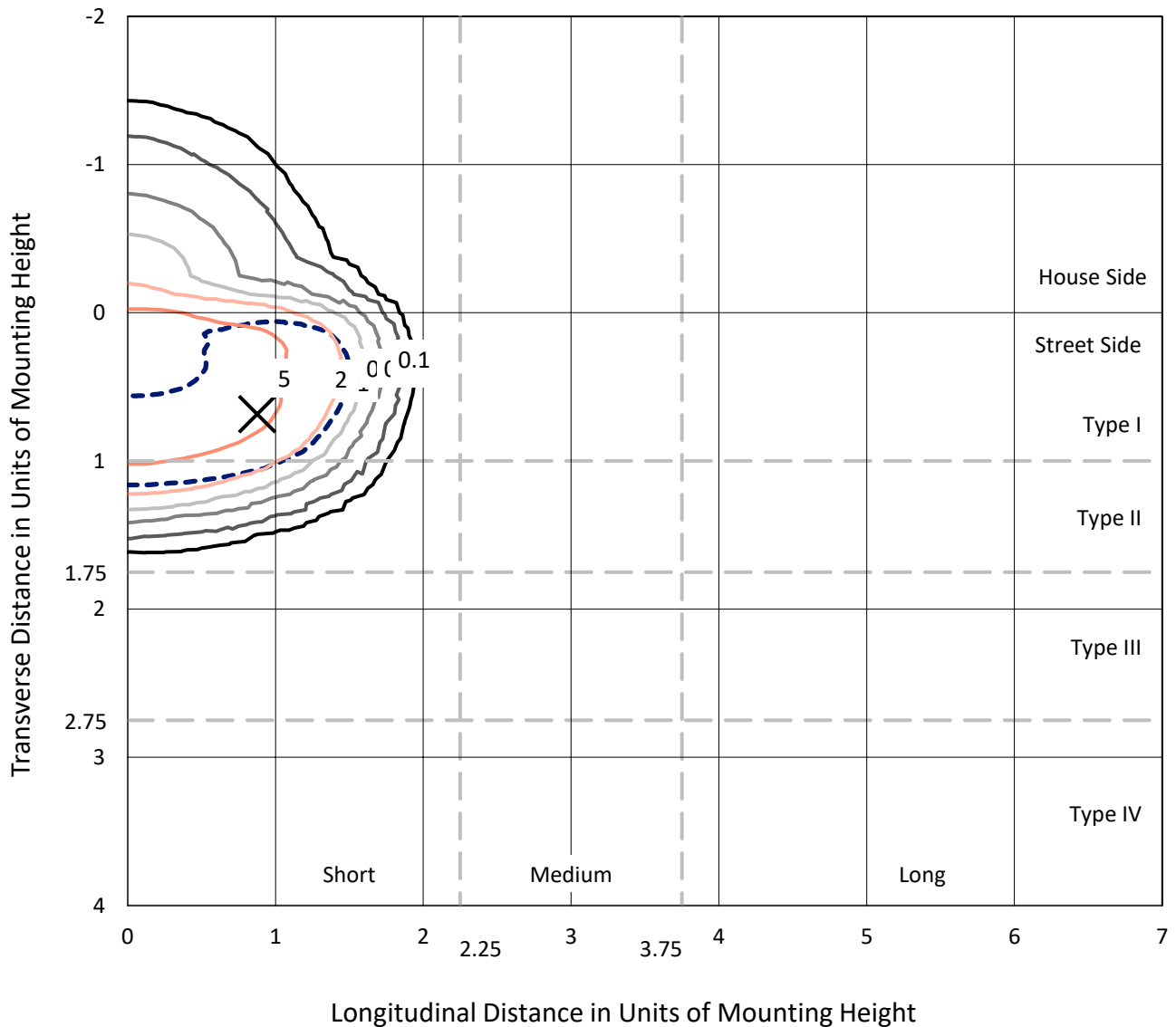
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528877
 CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

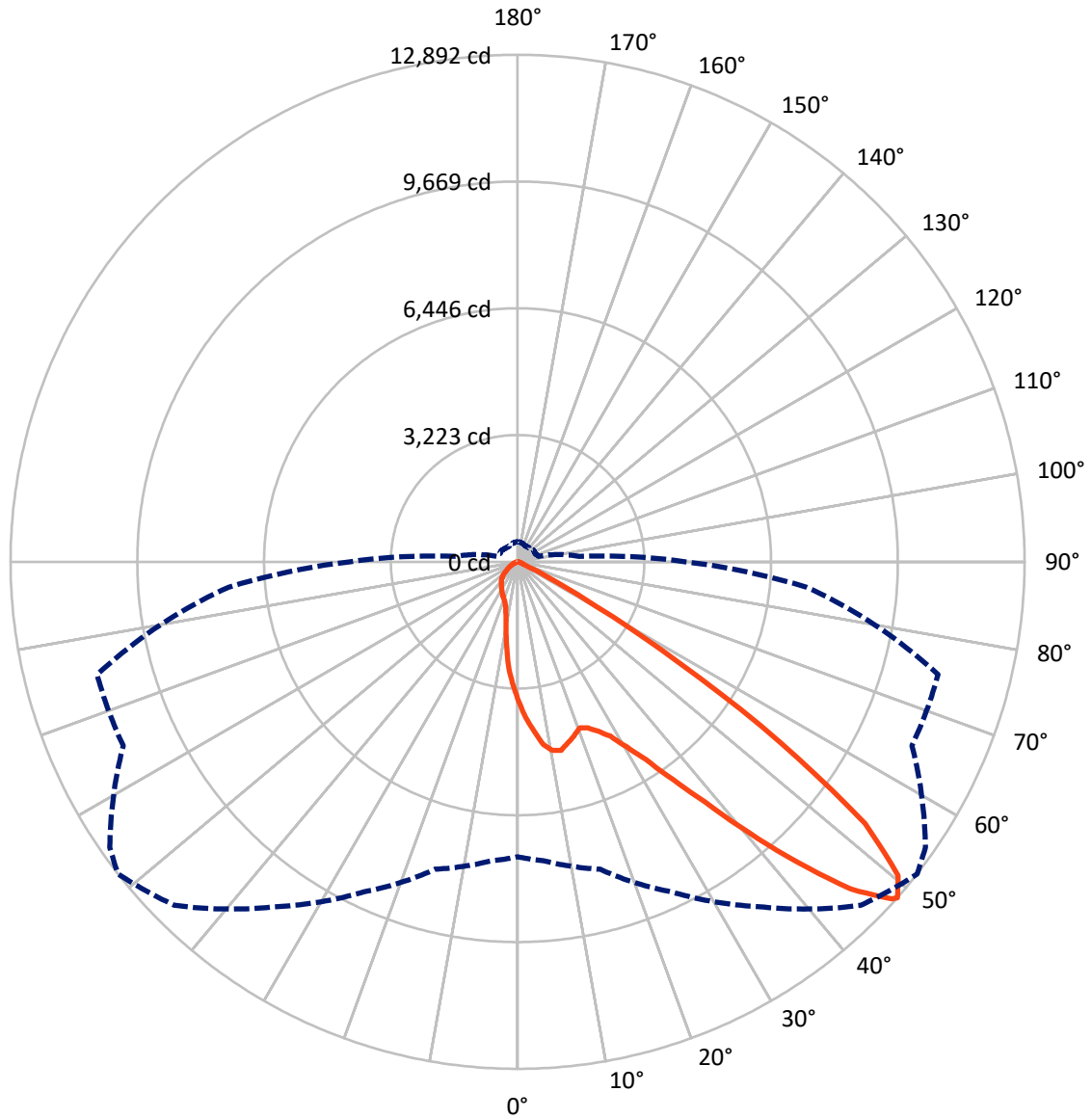
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

REPORT NUMBER: P528877
CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P528877
 CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1496.5	0.0	1496.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10794.5	0.0	10794.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	12291.0	0.0	12291.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.9	2.6
10°-20°	849.0	6.9
20°-30°	1449.6	11.8
30°-40°	2669.5	21.7
40°-50°	4145.7	33.7
50°-60°	2495.0	20.3
60°-70°	288.6	2.3
70°-80°	55.9	0.5
80°-90°	12.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12291.0	100.0
0°-180°	12291.0	100.0

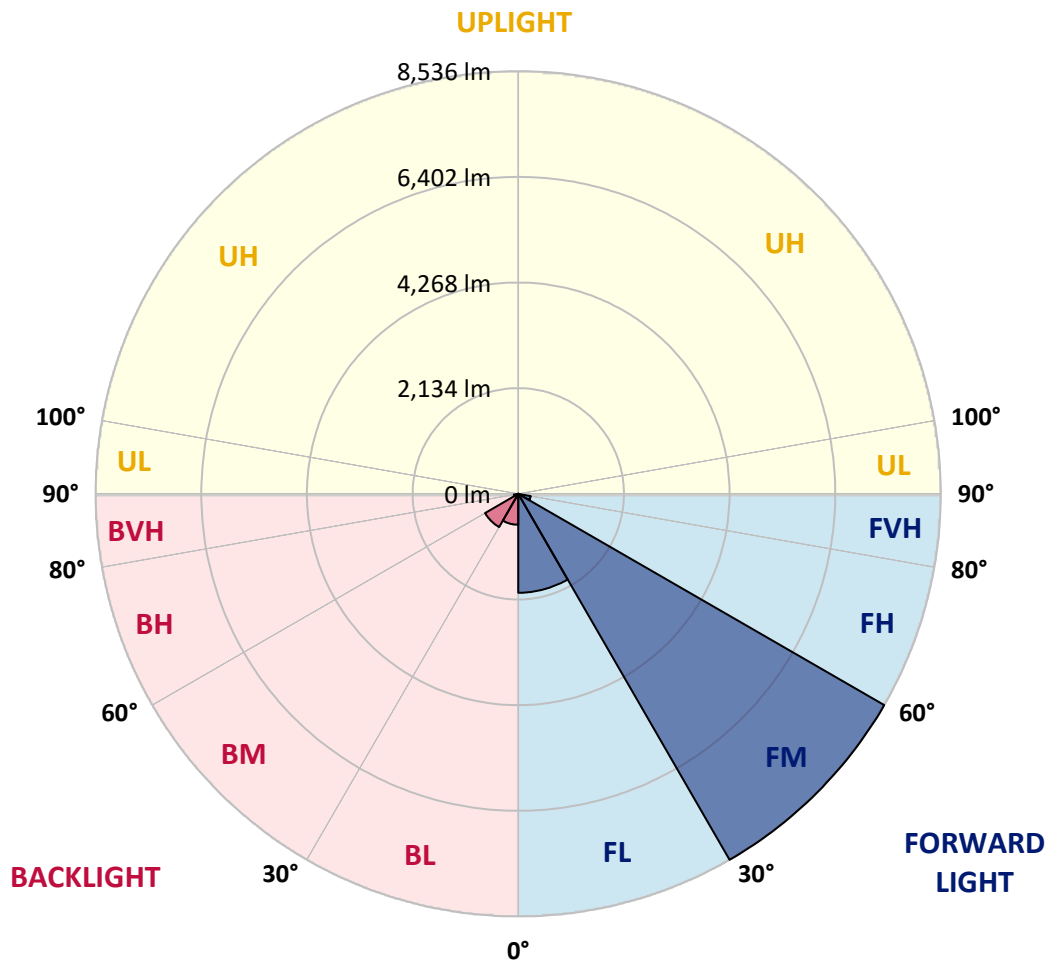


REPORT NUMBER: P528877
 CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1998.4	16.3			
FM (30°-60°)	8535.9	69.4			
FH (60°-80°)	254.1	2.1			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	625.1	5.1	B2/1000		
BM (30°-60°)	774.3	6.3	B1/1000		
BH (60°-80°)	90.3	0.7	B0/110		G0/110
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





REPORT NUMBER: P528877

CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4
2.5°	4302.0	4203.4	4212.4	4147.9	4110.3	4049.3	3966.9	3950.8	3861.2	3739.4	3615.7
5°	4689.0	4665.7	4696.2	4603.0	4606.6	4506.2	4312.7	4316.3	4110.3	3911.4	3719.7
7.5°	4714.1	4660.3	4690.8	4773.2	4821.6	4803.7	4694.4	4599.4	4404.1	4112.0	3832.5
10°	4221.3	4323.5	4355.7	4491.9	4685.4	4889.7	4877.1	4882.5	4719.4	4337.8	3929.3
12.5°	3925.7	3857.6	3966.9	4049.3	4341.4	4737.4	4918.3	4957.7	4970.3	4556.4	4026.0
15°	3791.3	3791.3	3809.2	3832.5	4044.0	4409.5	4778.6	4893.2	5163.8	4843.1	4178.3
17.5°	3875.5	3871.9	3897.0	3848.7	3927.5	4208.8	4649.6	4780.4	5380.6	5124.4	4298.4
20°	4131.8	4144.3	4128.2	3988.4	3993.8	4205.2	4506.2	4712.3	5527.5	5368.1	4457.8
22.5°	4488.3	4495.5	4404.1	4251.8	4207.0	4310.9	4588.6	4746.3	5645.8	5660.1	4506.2
25°	4900.4	4871.7	4853.8	4638.8	4502.6	4592.2	4775.0	4866.4	5719.2	5910.9	4644.2
27.5°	5472.0	5414.6	5305.3	5113.6	5013.3	4886.1	5016.9	5167.4	5928.9	6262.1	4794.7
30°	6315.9	6265.7	6052.5	5805.2	5541.9	5416.4	5457.6	5540.1	6306.9	6668.9	4993.6
32.5°	7586.2	7480.5	7172.3	6701.1	6342.8	5997.0	5986.2	6074.0	6645.6	7231.5	5230.1
35°	8985.6	8953.3	8500.0	8014.5	7321.0	6787.1	6796.1	6842.7	7294.2	7969.7	5540.1
37.5°	9915.5	10092.9	9804.4	9283.0	8700.7	7937.4	7743.9	7760.0	8184.7	8844.0	6099.1
40°	10634.0	10483.5	10517.5	10395.7	9997.9	9478.3	9050.1	8965.9	9214.9	9811.6	6654.5
42.5°	10320.4	10327.6	10537.2	10825.7	10924.2	10886.6	10449.4	10290.0	10096.5	10603.5	7183.1
45°	9435.3	9619.9	9892.2	10655.5	11325.6	11954.5	11868.5	11603.3	10705.6	11230.6	7487.7
47.5°	8023.4	8016.2	8462.4	9455.0	10943.9	12416.8	12807.4	12621.0	11137.5	11160.7	7425.0
48°	7502.0	7631.0	8091.5	9259.7	10702.1	12348.7	12891.6	12656.9	11064.0	11067.6	7371.2
50°	5545.4	5522.1	6095.5	7528.9	9558.9	11603.3	12536.8	12719.6	11062.2	10596.3	6995.0
52.5°	2929.5	3029.8	3447.3	4733.8	6758.4	9496.2	11058.6	11343.5	10671.6	9825.9	6453.8
55°	1245.3	1125.2	1445.9	2137.5	3802.1	6344.6	8113.0	8747.3	9023.2	8695.3	5645.8
57.5°	444.4	485.6	559.0	804.5	1598.2	3472.4	4837.7	5330.4	6251.4	6380.4	3846.9
60°	284.9	290.3	313.6	369.1	600.2	1338.4	2295.2	2687.6	3105.1	3205.4	1795.3
62.5°	220.4	222.2	232.9	241.9	284.9	519.6	861.8	1021.3	1060.7	912.0	471.2
65°	184.5	186.3	189.9	189.9	202.5	243.7	301.0	331.5	322.5	318.9	267.0
67.5°	141.5	145.1	152.3	152.3	159.5	148.7	166.6	177.4	200.7	243.7	227.6
70°	111.1	112.9	118.3	121.8	121.8	107.5	120.0	130.8	146.9	181.0	179.2
72.5°	86.0	89.6	93.2	93.2	87.8	73.5	86.0	95.0	105.7	125.4	121.8
75°	66.3	66.3	68.1	55.5	43.0	37.6	52.0	62.7	78.8	82.4	68.1
77.5°	17.9	19.7	17.9	16.1	17.9	26.9	34.0	39.4	50.2	50.2	44.8
80°	0.0	1.8	5.4	10.8	17.9	25.1	30.5	34.0	39.4	43.0	41.2
82.5°	0.0	1.8	5.4	10.8	16.1	19.7	26.9	28.7	32.3	37.6	37.6
85°	0.0	1.8	3.6	7.2	10.8	12.5	12.5	10.8	10.8	9.0	7.2
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528877

CATALOG NUMBER: GALN-SA4A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4	3549.4
2.5°	3567.4	3511.8	3427.6	3295.0	3167.8	3085.4	3006.5	2918.7	2870.4	2866.8	2839.9
5°	3610.4	3484.9	3284.3	3056.7	2813.0	2603.4	2392.0	2254.0	2130.4	2062.3	2049.8
7.5°	3633.6	3470.6	3146.3	2764.7	2349.0	2006.7	1770.2	1596.4	1528.4	1478.2	1476.4
10°	3682.0	3445.5	2940.2	2377.6	1863.4	1517.6	1354.6	1275.7	1238.1	1223.8	1202.3
12.5°	3717.9	3398.9	2728.8	1979.9	1472.8	1257.8	1186.1	1168.2	1170.0	1177.2	1168.2
15°	3768.0	3357.7	2443.9	1625.1	1236.3	1132.4	1132.4	1136.0	1161.0	1164.6	1162.8
17.5°	3764.4	3277.1	2150.1	1338.4	1093.0	1078.6	1084.0	1118.0	1134.2	1139.5	1127.0
20°	3807.4	3201.8	1847.3	1143.1	1012.3	1033.8	1069.7	1078.6	1098.3	1101.9	1087.6
22.5°	3794.9	3013.7	1566.0	989.0	951.4	992.6	1028.5	1039.2	1033.8	1023.1	1021.3
25°	3771.6	2852.4	1308.0	886.9	906.6	951.4	985.5	965.7	955.0	956.8	958.6
27.5°	3730.4	2648.2	1094.8	815.2	845.7	912.0	910.2	903.0	913.8	904.8	913.8
30°	3723.2	2443.9	919.2	750.7	800.9	849.3	852.9	865.4	878.0	861.8	878.0
32.5°	3734.0	2220.0	793.7	711.3	774.0	775.8	815.2	827.8	818.8	783.0	786.6
35°	3816.4	2048.0	702.4	689.8	731.0	732.8	770.4	754.3	714.9	693.4	705.9
37.5°	3990.2	1904.6	659.4	670.1	673.7	697.0	698.8	666.5	670.1	668.3	675.5
40°	4212.4	1795.3	628.9	652.2	648.6	664.7	600.2	618.2	634.3	639.7	643.2
42.5°	4364.7	1716.5	609.2	623.5	616.4	587.7	551.9	569.8	582.3	602.0	605.6
45°	4432.8	1653.8	585.9	573.4	573.4	521.4	507.1	510.6	539.3	560.8	557.2
47.5°	4321.7	1592.9	544.7	507.1	519.6	476.6	460.5	460.5	490.9	517.8	512.4
48°	4278.7	1567.8	546.5	492.7	501.7	469.4	453.3	449.7	483.8	508.9	508.9
50°	4065.5	1474.6	499.9	453.3	435.4	431.8	421.1	424.6	446.1	469.4	469.4
52.5°	3649.8	1273.9	422.9	388.8	356.6	378.1	383.4	376.3	387.0	408.5	406.7
55°	3046.0	978.3	338.6	322.5	297.4	320.7	331.5	322.5	311.8	327.9	327.9
57.5°	1951.2	526.8	270.6	274.1	249.1	272.3	281.3	259.8	240.1	252.6	250.8
60°	879.7	315.3	222.2	216.8	200.7	227.6	241.9	216.8	189.9	198.9	207.8
62.5°	329.7	224.0	168.4	164.8	161.3	186.3	193.5	173.8	146.9	152.3	154.1
65°	241.9	197.1	134.4	121.8	129.0	146.9	143.3	123.6	105.7	105.7	109.3
67.5°	206.1	172.0	109.3	95.0	95.0	96.8	89.6	78.8	73.5	77.0	80.6
70°	161.3	136.2	86.0	73.5	66.3	59.1	52.0	50.2	44.8	50.2	48.4
72.5°	103.9	91.4	66.3	55.5	50.2	41.2	34.0	32.3	26.9	25.1	25.1
75°	55.5	55.5	52.0	44.8	39.4	32.3	26.9	21.5	14.3	10.8	10.8
77.5°	39.4	43.0	46.6	43.0	35.8	26.9	21.5	14.3	7.2	3.6	3.6
80°	37.6	43.0	46.6	41.2	35.8	26.9	19.7	10.8	5.4	1.8	1.8
82.5°	34.0	39.4	43.0	37.6	32.3	23.3	17.9	10.8	5.4	1.8	1.8
85°	7.2	9.0	10.8	10.8	12.5	16.1	12.5	9.0	3.6	1.8	1.8
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)